

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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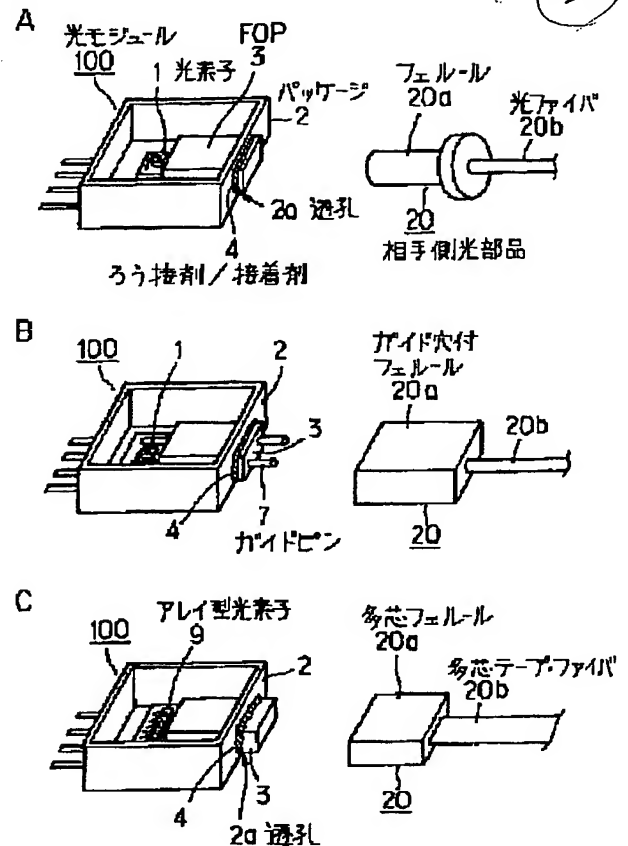
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TITLE : OPTICAL MODULE



**ABSTRACT :** PROBLEM TO BE SOLVED: To reduce the man-hours for assembly and provide a structure which is easily adaptable to an array type optical element and an opposite-side multi- fiber ribbon.

**SOLUTION:** An optical element (light emitting element or light receiving element) 1 is stored and held opposite to the through hole 2a of a package 2. A fiber optic plate(FOP) 3 is stored and held in the package 2 so that the through hole 2a is closed. The FOP 3 guides the output light of the optical element 1 and emits it to an opposite-side optical component 20 or guides the output light of the opposite-side optical component 20 and makes it incident on the optical element 1. Guide pins 7 which are used for the coupling with the opposite-side optical component 20 may be led out of the end surface of the FOP 3. An element 9 formed by arraying chips may be used as the optical element. In this case, it is easy to optically couple the FOP 3 with respective optical fibers of an opposite-side multi-fiber ribbon 20b. This optical module 100 can be provided with an optical connector mechanism which can freely be inserted into and extracted from the opposite-side optical component.

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